

OHIO AGRICULTURAL EXPERIMENT STATION
Vegetable Crops Substation, Marietta, Ohio

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EARLY CABBAGE VARIETY TRIALS - 1960
Marietta, Ohio

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Three new varieties or hybrids of cabbage, Early Market Hybrid, Hybrid C-2-A, and Early Jersey Wakefield were evaluated in the 1960 trials. These were compared with seven other varieties or strains of varieties for their suitability as early fresh market cabbage. The results are given in Table 1.

CULTURAL INFORMATION

Seed Sowed: February 13 in sash house ground beds and plants set in field April 4, 1960.

Fertilizer: 1000 lbs of 10-10-10 drilled and disced in prior to planting.

Starter Solution: 10 lbs of ammonium nitrate per 50 gal. of water at rate of $\frac{1}{2}$ pint per plant in transplanting water.

Spacing: Rows 36" apart, plants 12" in row 40 plants per single row plot randomized and replicated six times.

Date of Harvest: June 9, 1960.

SOURCES OF SEED

<u>Code</u>	<u>Source</u>
A ₁	Abbott & Cobb, 4744 Frankford Ave., Philadelphia 24, Pennsylvania
B ₁	W. Atlee Burpee & Co., Huntington Park at 18th St., Philadelphia 32, Pa.
H ₁	Joseph Harris & Co., Inc., Moreton Farm, Rochester 11, N.Y.
H ₂	Holmes Seed Co., 1017 9th St. S.W., Canton 11, Ohio
L ₂	Letherman's Seed Co., 501 McKinley Ave. N.W., Canton 2, Ohio
S ₁	Stokes Seeds Ltd., St. Catherines, Ontario, Canada

GENERAL COMMENTS

Early Market Hybrid - greatest head weight in test, but lowest percentage of firm heads harvested primarily because of 28 per cent hollow and/or discolored stems (cores) probably boron deficiency. This variety apparently has higher boron requirement than other varieties.

Hybrid C-2-A- was slightly immature at first harvest therefore heads not as solid as desired, approximately 12 per cent of plants were stunted and did not head.

Early Jersey Wakefield - appeared later than average for type and variable in head shape and maturity.

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TABLE 1
CABBAGE VARIETIES
Marietta, Ohio - 1960

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(6 replications)

Row Number	Variety and Lot Number		Source	Number of Days to First Harvest	Yield per Acre	Average Head Weight	Firm Heads Harvested	Polar Diameter	Equatorial Diameter	Shape Index (Polar/Equatorial)	Shape of Head	Length of Core	Plant Diameter	Height of Stem	General Uniformity(1-5)	Uniformity of Maturity	Solidity (1-5)	Cracked Heads	Remarks
					tons	lbs.	%	in.	in.			in.	in.					%	
4	Golden Acre Yr	1-195	L 2	71	21.1	3.1	94.6	6.4	6.6	0.97	Globe	4.2	21.1	T	3	4	2	2.1	Maturity uniform, good head type
8	Early Marvel		S 1	66	19.4	2.8	96.2	5.8	6.1	0.95	Globe	3.5	20.6	M	3	4	3	0.4	High percentage of mkt. heads
1	Golden Acre Special	1617A	H 1	69	18.0	2.9	86.8	5.9	6.1	0.96	Globe	3.2	20.8	M	3	4	2	2.6	Heads lack compactness, maturity unif.
6	Hybrid C-2-A	1710	H 1	73	17.4	2.7	88.7	5.8	6.0	0.96	Globe	4.3	25.3	M	4	4	2	0.0	Slightly immature at harvest, many small stunted plants.
5	Early Market Hybrid	1506	H 2	71	16.8	3.4	68.6	6.5	6.9	0.95	Globe	4.0	21.6	M	3	3	2	0.0	Requires high boron, good head type but large.
7	CCCross Hybrid	1002	H 2	68	16.6	2.8	83.5	5.9	5.7	1.04	Oval	2.7	20.4	S	3	4	4	11.8	Cracking of wrapper lvs. Excel. interval texture & color; solid and compact.
2	Golden Acre Special	505	A 1	68	16.1	2.6	85.8	5.7	5.7	1.00	Oval	3.2	20.5	S	3	3	2	6.3	Maturity variable type variable.
9	Stokes Early Hybrid		S 1	68	15.9	2.9	76.3	6.1	5.9	1.03	Oval	2.9	18.4	S	2	3	3	19.1	Considerable cracking of wrapper leaves, contains large leaved off-type plants.
3	Earliana		B 1	67	15.9	2.5	89.3	5.8	5.9	0.98	Glove	3.4	19.8	S	2	4	2	9.0	Tends to crack before becoming solid, maturity unif. Doesnt hold in field.
10	Early Jersey Wakefield		H 1	75	15.8	2.7	81.5	7.9	5.6	1.42	Pointed	3.4	23.1	S	4	3	2	0.4	Shape and solidity variable.

LSD @ 5%

0.3